SANYO

SERVICE MANUEL

SANYO ELECTRIC (H. K.) LTD.

PORTABLE RADIO

MODEL TH632

SPECIFICATIONS

Frequency Range	530 – 1630 KHz
Intermediate Frequency	455 KHz
Transistors	6
Diode	1
Sensitivity	445 uV/m
Power Source	1.5V Battery, Two
Power Output	60 mW Undistored
	100 mW Maximum
Current Drain	No signal 15 mA
	Maximum 70 mA
Outlet	8 Ohm Earphone
Speaker	2¼" PM Dynamic Speaker
Cabinet Dimensions	4-1/8"(H) x 2-7/16"(W) x 1-5/16"(D)
Weight	3/8 Lb.

ALIGNMENT INSTRUCTIONS

Equipment Required

EQUIPMENT REQUIRED

1. Signal Generator, 50 KHz to 30 MHz, AM Modulation.
2. AC Voltmeter.
3. Oscilloscope.
4. IRE Loop.

VOLUME CONTROL MAXIMUM

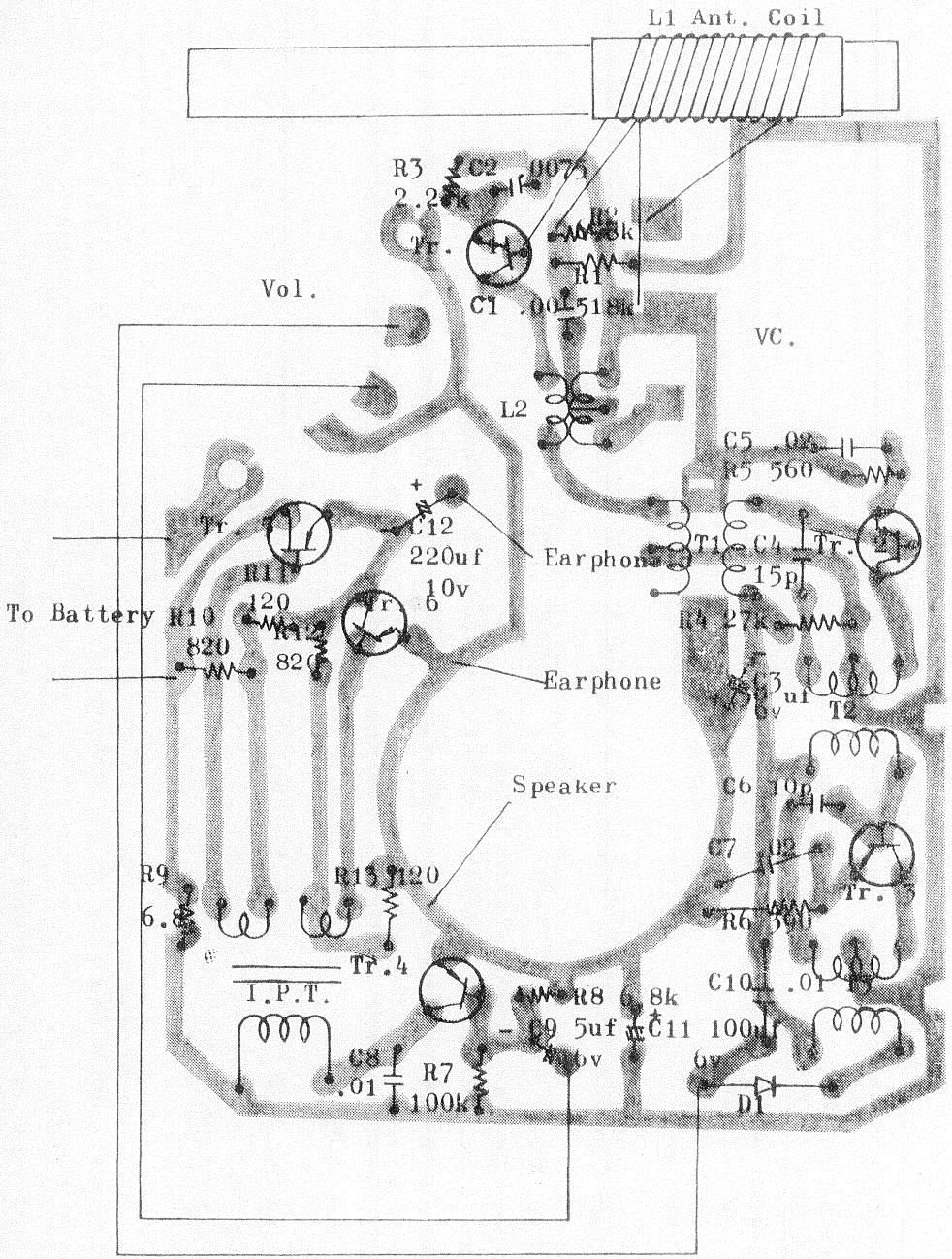
Function	Signal Input	Frequency	Dial Setting	Output	Adj.	
AM IF	Signal gen. 30%AM	455 KHz	Lowest End	AC	T1,T2,T3,	
AM	mod. 400 Hz, con-	600 KHz	600 KHz	Voltmeter	L2	Maximum
OSC	nected to IRE loop	1400 KHz	1400 KHz	Across	CT1	Output
AM	coulped to Antana	600 KHz	600 KHz	Voice Coil	L1	
RF	coil. Signal level	1400 KHz	1400 KHz	of	CT2	
	LOW.			Speaker		

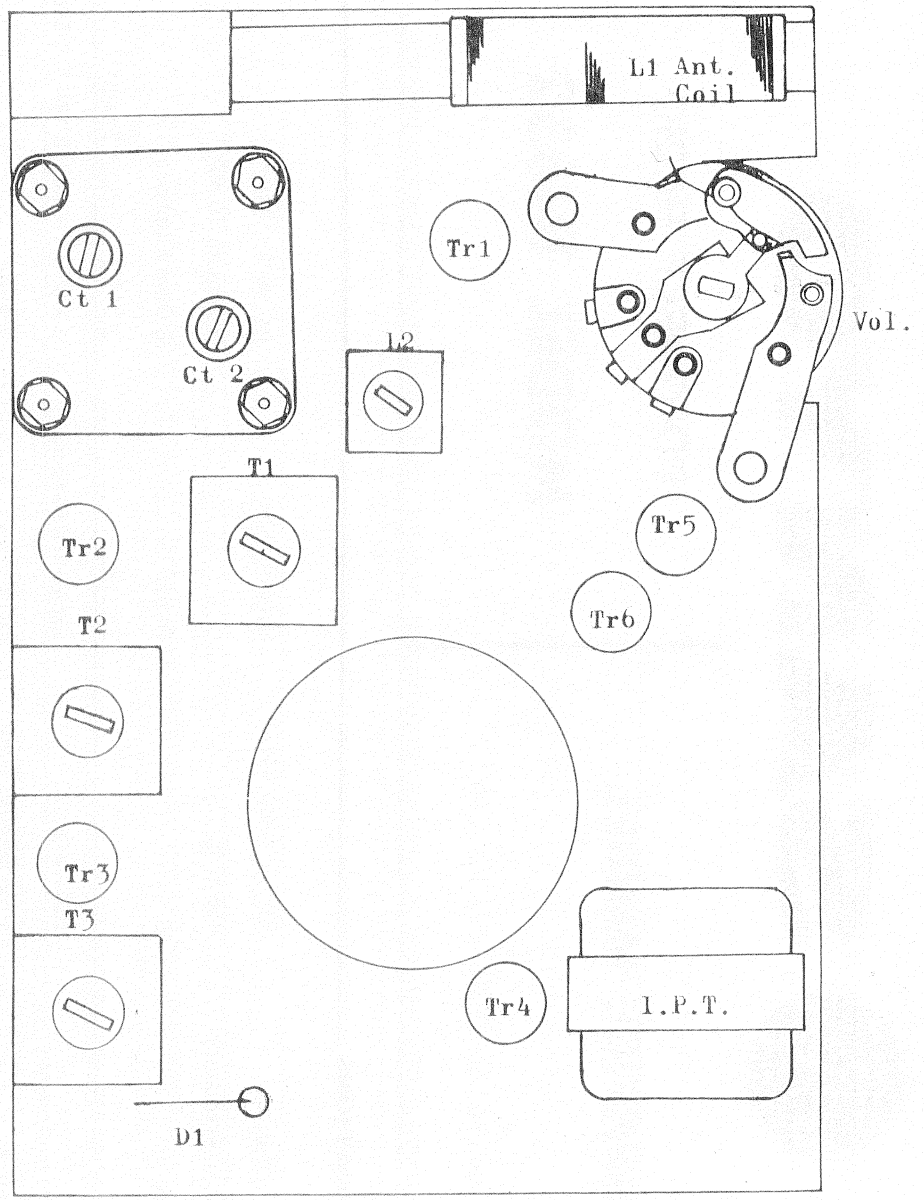
REPEAT OSC. AND RF UNTIL NO FURTHER IMPROVEMENT IS NOTED

If dial scale is not available during alignement, the osc. can be adjusted at the extreme ends of the dial, using the following frequencies.

	AM
LOW END	525 KHz
HIGH ENG	1650 KHz

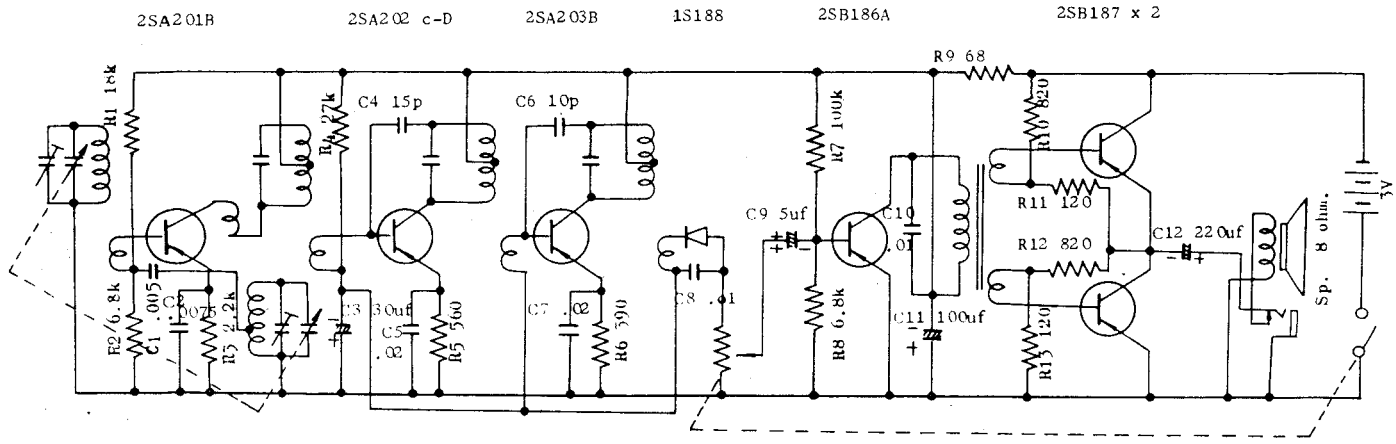
(RF should be adjusted at same frequencies as in chart above.)


L1 Ant. Coil
R3 2.2k
C2 .007
Tr. 1
R2 68k
R1 51k
C1 .001
Vol.
VC.
L2
C5 .02
R5 560
Tr. 2
C12 220uf 10v
Earphone
T1
C4 15p
R11 120
To Battery
R10 820
R12 820
Tr
Earphone
R4 27k
C3 .01uf 6v
T2
Speaker
C6 10p
C7 .02
Tr. 3
R9 6.8
R13 120
R6 560
Tr.4
I.P.T.
R8 6.8k
C9 5uf 6v
C11 100uf 6v
C10 .01
C8 .01
R7 100k
D1


L1 Ant. Coil
Tr1
Vol.
Ct 1
Ct 2
L2
T1
Tr2
Tr5
Tr6
T2
Tr3
T3
Tr4
I.P.T.
D1

ground. in NPN Types

TH-632



TH-632 PARTS LIST

SUBJECT TO CHANGE W/O NOTICE

Ref. No.	Stock No.	Qn'ty.	Description
CABINET			
	R-311074	1	Cabinet
	R-262121	1	Decoration Metal
	H-26053	1	Dial Plate
	R-311080A	1	D.L.
	R-471807	1	Specification Sheet
	R-315023	1	Back Cover
		1	Net, Cabinet, 53x62
		1	Battery Sheet
	R-24113a	1	Special Screw
	H-25002	1	Fixing Metal
	R-245048	1	Envelop Nut, 5x6.8
	H-49001	1	Ring, 22x30x0.3t

Ref. No.	Qn'ty.	Description		
CAPACITORS				
C1	1	Mylar 0.005uF	±20%	50V.
C2	1	Mylar 0.0075uF	±20%	50V.
C4	1	Ceramic 15pF	±10%	50V.
C6	1	Ceramic 10pF	±10%	50V.
C8, 10	2	Ceramic 0.01uF	+80%	50V.
C5, 7	2	Ceramic 0.02uF	+80%	50V.
C12	1	Chemical 220uF		3V.
C11	1	Chemical 50uF		3V.
C13	1	Chemical 30uF		3V.
C9	1	Chemical 5uF		3V.

CHASSIS			
H-41016	1	P.C.B.	
R-311075	1	Knob, Tuning	
R-262122	1	Needle Plate	
H-31011	1	VR. Knob	
	1	Washer, 2mm	
R-S7083	1	Special Screw, Tu. Knob	

TH–632 PARTS LIST

SUBJECT TO CHANGE W/O NOTICE

Ref. No.	Stock No.	Qn'ty.	Description
RESISTORS, OHMS, ±10%, ¼W, OR NOTED			
R1		1	18k
R2		1	6.8k
R3		1	2.2k
R4		1	27k
R5		1	560
R6		1	390
R7		1	100k
R8		1	6.8k
R9		1	68
R10, 12		2	820
R11, 13		2	120
COIL & TRANSFORMERS			
L1	H–w2007	1	Ant. Coil
L2	R–w8535	1	Osc. Coil
	H–w6014	1	Input
T1	R–w5T008	1	I.F.T.
T2	R–w5T009	1	I.F.T.
T3	R–wT043	1	I.F.T.
CONTROLS			
	H–C1001	1	Var. Capacitor, Tuner
	H–R1001	1	Var. Resistor, Vol. Control
OTHER ITEMS			
	R–S6560	1	Earphone Complete
	R–S2509	1	Earphone Socket
	H–35005	1	Battery Case
	H–35004	1	Ant. Holder
	R–S6520	1	Speaker, 2¼", 8 Ohms.
SEMICONDUCTORS			
Tr1		1	2SA201B
Tr2		1	2SA202 C–D
Tr3		1	2SA203B
Tr4		1	2SB186A
Tr5, 6		1	2SB187, Green only
D1		1	1S188

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